	Application No.	Applicant(s)
Notice of Allowability	10/668,271	SILLARD ET AL.
	Examiner	Art Unit
	Zia R. Hashmi	2881
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>9/24/2003</u> .		
2. The allowed claim(s) is/are <u>1-35</u> .		
3. X The drawings filed on 24 September 2003 are accepted by the Examiner.		
4.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 1/12/,2/4/,5/11/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summary Paper No./Mail Date 7. Examiner's Amendr	te ment/Comment ent of Reasons for Allowance

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DETAILED ACTION

Allowable Subject Matter

- 1. A "Preliminary Amendment" was received on September 23, 2003. Specification and claims 1, 5, 7, 15, 17-19, 22, and 26 have been amended, as indicated, and new claims 29-35 have been added.
- 2. Claims 1-35 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

With respect to independent claims 1, 9, and 23, prior art fails to disclose a chromatic dispersion compensation module comprising, an enclosure including an input terminal and an output terminal, a higher-order mode (HOM) chromatic dispersion compensation optical line situated inside the enclosure and disposed between the input terminal and the output terminal, the line comprising one or more HOM multimode chromatic dispersion compensation optical fibers, in series and not comprising any single-mode optical fiber, an input mode converter for converting the fundamental mode into said higher order mode, situated between the input terminal and the compensation optical line, an output mode converter for converting said higher order mode into the fundamental mode, situated between the compensation optical line and the output terminal, the module being adapted to be inserted by means of the input and output terminals into a transmission line comprising a standard single-mode line optical fiber adapted to transmit information in a spectral domain of use, the input terminal and the input mode converter together introducing into the transmission line an input loss, the

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output terminal and the output mode converter together introducing into the transmission line an output loss.

With respect to independent claims 8, 16, 24, and 27, prior art fails to disclose 4. an enclosure including an input terminal and an output terminal, a higher-order mode chromatic dispersion compensation optical line situated inside the enclosure and disposed between the input terminal and the output terminal, the line comprising one or more HOM multimode chromatic dispersion compensation optical fibers in series and not comprising any single-mode optical fiber, an input mode converter for converting the fundamental mode into said higher order mode, situated between the input terminal and the compensation optical line, an output mode converter for converting said higher order mode into the fundamental mode, situated between the compensation optical line and the output terminal, the module being adapted to be inserted by means of the input and output terminals into a transmission line comprising a standard single-mode line optical fiber adapted to transmit information in a spectral domain of use, and the compensation optical fiber or at least one of the compensation optical fibers in series having a core having at least five core segments, to which core cladding is added, so that said optical fiber having a core with at least five core segments simultaneously has, at a wavelength of 1550 nm, chromatic dispersion more negative than -300 ps/nm-km and a chromatic dispersion to dispersion slope ratio greater than 200 nm.

Claims 2-7, 10-15, 17-22, 25-26, and 28-35 are allowed by virtue of their dependencies on the independent claims 1, 8-9, 16, 23-24, and 27.

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Conclusion

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5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments of Statement of Reasons for Allowance".

- 6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact Electronic Business Center (EBC) at 866-217-9197 (toll-free).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zia Hashmi whose telephone number is (571) 272-2473. The examiner can normally be reached between 8.30 AM- 5 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on (571) 272-2477.

Zia Hashmi

March 17, 2005.

SUPERVISORY PATENT EXAMINER
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